CSC 201 – Computer Science I

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**Assignment #1**

**Chapter 1 – Programming Warm-up Exercise 1**

1. Step a is a reference to a subalgorithm; the user is directed to another set of instructions.

a. Mix developer according to instructions on package.

1. Step e is the same as step a; it is a reference to a subalgorithm.

e. Mix fixer according to instruction on package.

1. Step k is a loop; the enlarger is left on for a count of 30 seconds, and then the enlarger is turned off.

k. Turn enlarger on for 30 seconds and then off.

1. Step n contains selections. Depending on certain conditions, the user is directed to specific branches of the algorithm.

n1. If first print is too light:

Remove one piece of paper from paper safe, place on easel, and expose for 60 seconds to create a too-dark print. Then place in developer for 1 minute, stop bath for 30 seconds, and fixer for 1 minute.

n2. If first print is too dark:

Remove on piece of paper from paper safe, place on easel, and expose for 15 seconds to create a too-light print. Then place in developer for 1 minute, stop bath for 30 seconds, and fixer for 1 minute.

n3. If first print is about right:

Remove one piece of paper from paper safe, place on easel, and expose for 60 seconds to create a too-dark print. Then place in developer for 1 minute, stop bath for 30 seconds, and fixer for 1 minute. Remove on piece of paper from paper safe, place on easel, and expose for 15 seconds to create a too-light print. Then place in developer for 1 minute, stop bath for 30 seconds, and fixer for 1 minute.

1. Step r is a conditional loop. While the print is not at a desired exposure, steps p and q are repeated until they meet the right conditions.

r. Repeat steps p and q until a print is obtained with the desired exposure.

1. Step v is a loop based on a certain amount of time. The prints are washed, and after the count reaches 1 hour, the prints are done being washed.

v. Wash all prints for 1 hour.

**Chapter 1 – Programming Warm-up Exercise 2**

a. Apply toothpaste to toothbrush as directed by toothpaste instructions.

b1. If you have an electric toothbrush, make sure that the brush head is fully connected to the base. Switch on the toothbrush.

b2. If you have a regular toothbrush, move on to step c.

c. Brush a section of your teeth (middle, left side, or right side).

d. Apply pressure and brush in circular motions.

e. Brush the inner, outer, and chewing surfaces of teeth.

f. Repeat steps 3 through 4 until all three sections of your mouth are clean.

g. Brush the roof of your mouth and your tongue.

h1. If you have an electric toothbrush, switch the brush off, and rinse the brush thoroughly.

h2. If you have a regular toothbrush, rinse the brush thoroughly.

i. Rinse out your mouth and put away the toothbrush.

**Chapter 1 – Programming Warm-up Exercise 3**

Step a is a subalgorithm.

Steps b1, b2, h1, and h2 are selections.

Step f is a loop.